

FIG. 1

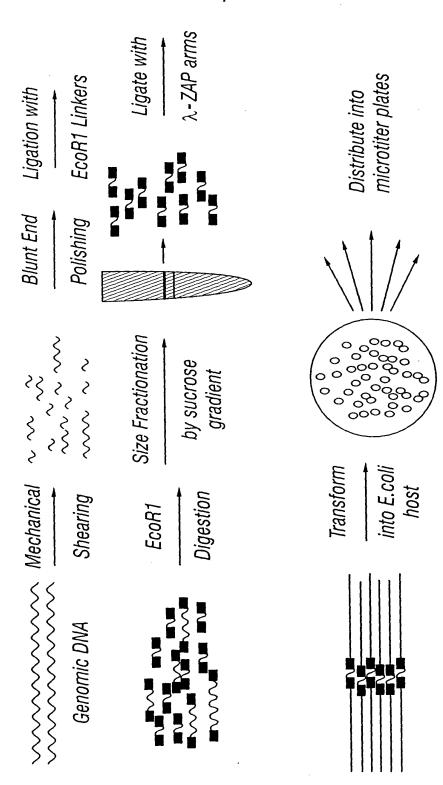


FIG. 2

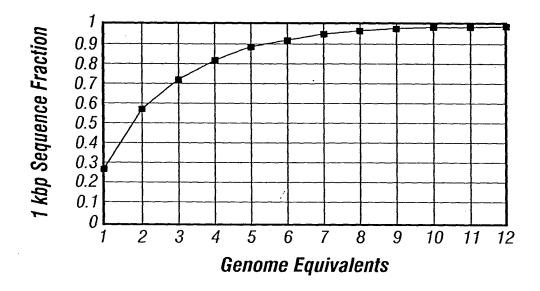


FIG. 3

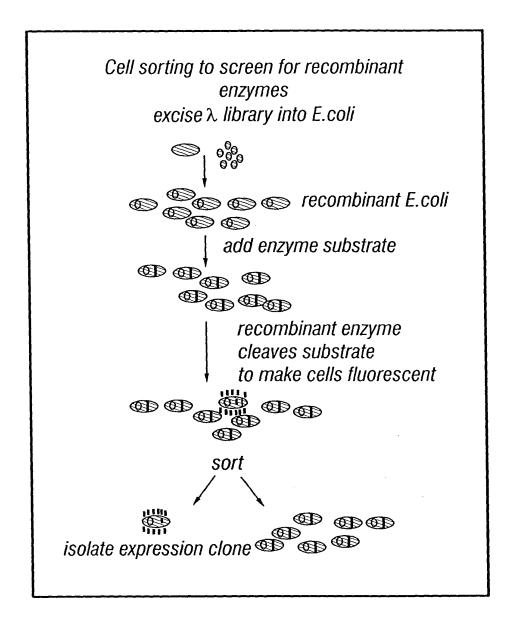


FIG. 4

## β-Gal clone with different substrates

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

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C12FDG

**CMFDG** 

FIG. 5

## 6/16

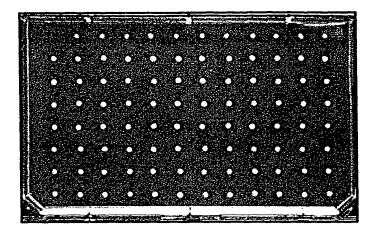


FIG. 6

$$R_1$$
 0 -Flour.  $H_2\bar{0}$   $R_1$  0 - + -0-Flour -

FIG. 7

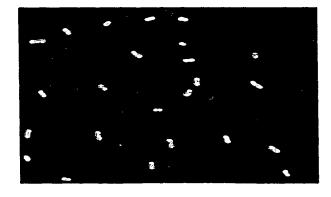


FIG. 8

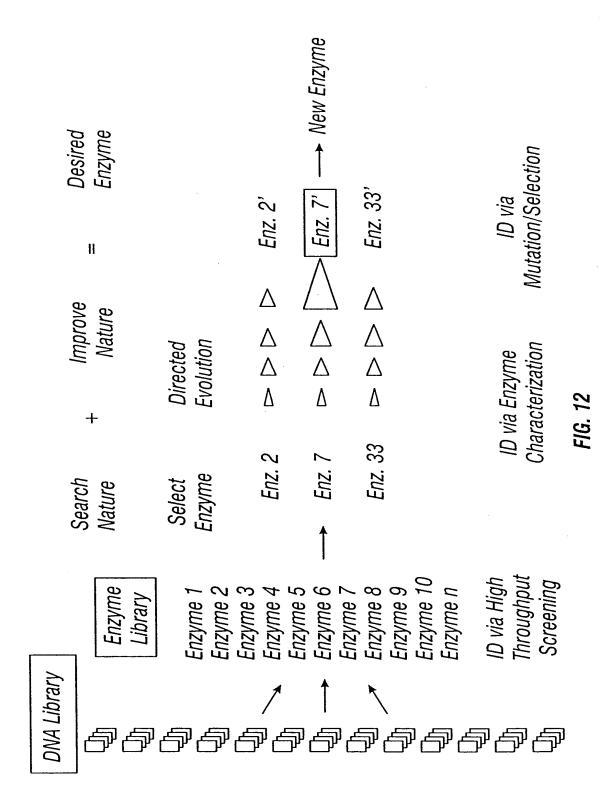
1

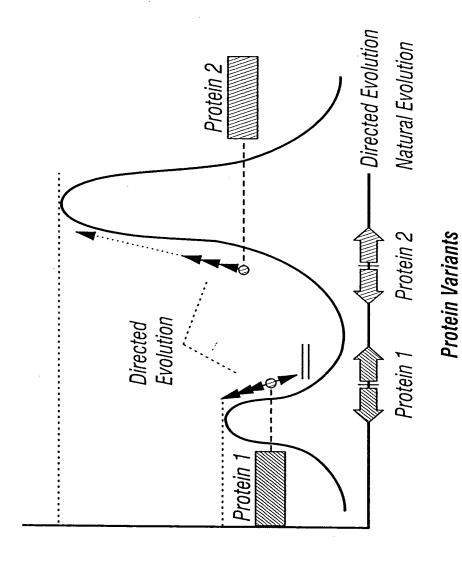
H<sub>3</sub>C(H<sub>2</sub>C) 
$$\xrightarrow{C}$$
  $\xrightarrow{C}$   $\xrightarrow$ 

$$H_2N \longrightarrow NH_2 + H_2N \longrightarrow NH_2 +$$

9/16 Monoxygenase 
$$\searrow_0$$
  $\searrow_0$   $\searrow_0$ 

FIG. 11





16. 13

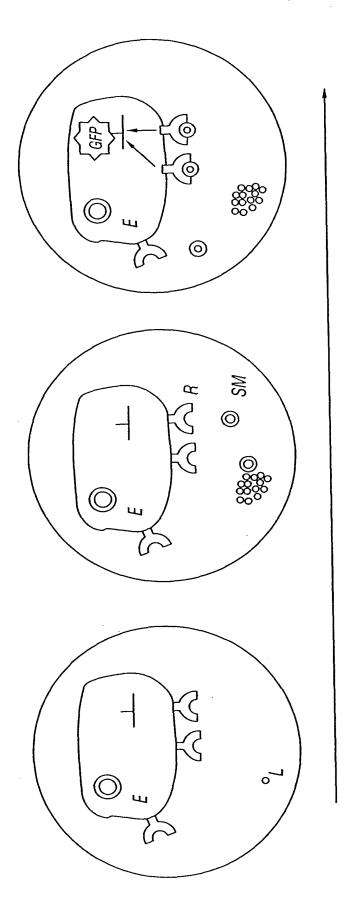
• Process Compatibility

Buffer Compatibility

• Expression Level

T Stability
• Solvent Stability

Aelative Enzyme Activity



Receptor binding of small molecule & GFP reporting

Growth and expression of small molecule from host

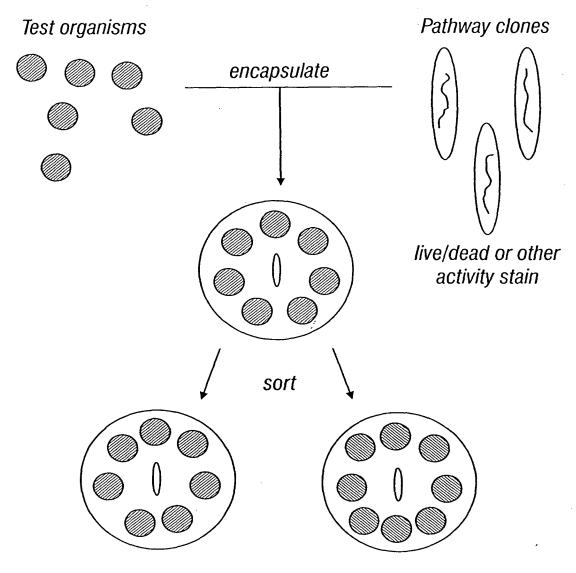
Library + Eukaryote

Co-encapsulation

SM=Small molecule L=Large insert library

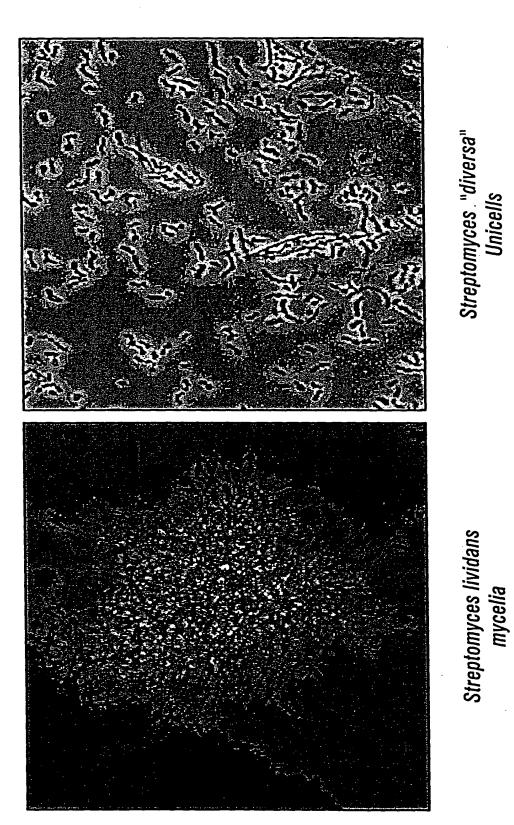
E=Eukaryotic assay organism L=Large insert library GFP=Green fluorescent protein R=Eukaryotic receptor

FIG. 14



bioactive expression (e.g. live/dead, groth rate, metabolic stains etc.)

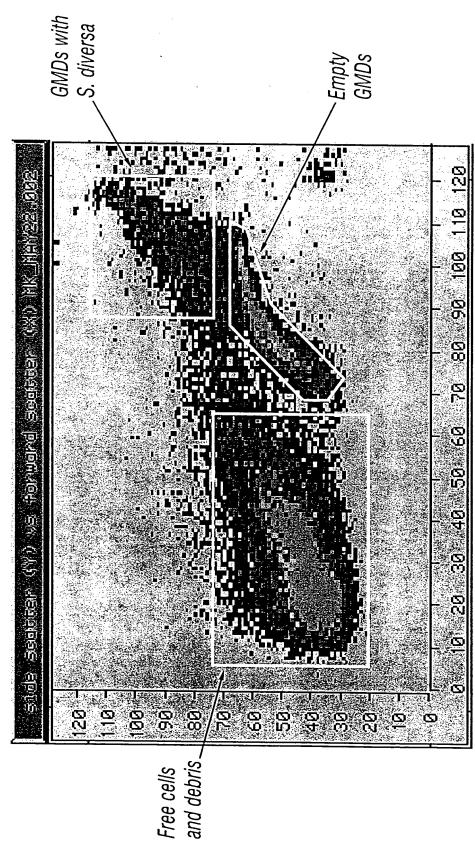
FIG. 15



Streptomyces "diversa" Unicells

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The think there starts then the think the



*15/16* 

16, 17

